10051362.050302

Applicant: Chio WONG Appl. No. 10/051,362

Remarks

The above amendments have been made to place the application in better form for examination. Upon entry of the foregoing amendment, claims 1-16 are pending in the application, with claims 1 and 5 being the independent claims. New claims 11-16 are sought to be added. These changes are believed to introduce no new matter, and their entry is respectfully requested.

Attached hereto is a substitute specification, and a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

Applicant hereby requests an action on the merits at the earliest opportunity.

Respectfully submitted,

Date: 16/3, 2002

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Version with markings to show changes made

- 1. (Amended) A crystallized bottleneck of <u>a polyester</u> beer bottle, wherein the crystallized bottleneck <u>is-has</u> no machined <u>a-screw</u> thread and <u>wherein</u> a crystallized length of the bottleneck portion is <u>Hin</u> a range of 0.5-35_mm.
- 2. (Amended) A crystallized bottleneck of <u>a polyester</u> beer bottle according to claim 1, wherein said crystallized length of the bottleneck portion is in a range of 0.5-10_mm.
- 3. (Amended) A crystallized bottleneck of <u>a polyester</u> beer bottle according to claim 1 or 2, wherein said bottleneck is made with a polyethylene terephthalate material.
- 4. (Amended) A crystallized bottleneck of polyester beer bottle according to claim 1-or 2, wherein a flanged ring is provided to said crystallized bottleneck of the polyester beer bottle, and said flanged ring has a plane bottom surface at a proper position spacing from the a top flange of the bottleneck; the upper surface of the flanged ring is an acclivitous plane; the acclivitous plane forms an angle of 45° on from the vertical direction and converges to the outer surface of the bottleneck portion.
 - 5. (Amended) A method for manufacturing a crystallized bottleneck of <u>a polyester beer bottle</u> according to claim 1, comprising the steps as followsof:

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forming a blank of a bottle made of polyester material is formed through drying;

, ejecting the polyester material and shaping itsaid ejected polyester material through cooling, thereby forming an uncrystallized blank of a bottle;

placing then the uncrystallized blank of the bottle is placed for 24-72 hours in an air-conditioned environment;

<u>preheating</u> a crystallizer <u>is-preheated</u> <u>for at least</u> two hours <u>or-more before prior to</u> crystallizing to the blank of the bottle <u>is started</u>;

<u>loading</u> a bunker is <u>loaded</u>-with the uncrystallized blank <u>of the bottle</u>;

, which is deliveringed to an blank horse's head via a conveyor belt;

; then sending a bottleneck portion of the uncrystallized bottle blank Is sent-into a said crystallizer to heat it the bottleneck portion at a high temperature and crystallize it the bottleneck portion via an arbor transmission chain;

at the same time, <u>controlling</u> the <u>temperature of the uncrystallized portion of the blank body</u> is <u>eontrolled</u>, so that <u>the uncrystallized portion of the blank body</u> it is not <u>aeffected</u> by the <u>high</u> <u>temperature</u> environment <u>of the crystallizerat high temperature</u>;

<u>discharging</u> the polyester bottle blank having a crystallized bottleneck portion is <u>discharged</u> through <u>an</u> output blank horse's head;

-and deliveringed to another conveyor belt to cool and shape the polyester bottle blankit.

6. (Amended) A method according to claim 5, wherein before a said bunker is loaded with

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the uncrystallized blank, the temperature of the bottle blank is controlled by an arbor temperature

controller; and, after the uncrystallized bottleneck portion of the bottle blank is fed into the

crystallizer, the temperature of the bottle blank is controlled by a bottleneck temperature controller.

7. (Amended) A method according to claim 6, wherein when a-said bunker is loaded with the

uncrystallized blank, the temperature, of the bottle blank is controlled in a range of 120–150 °C.

9. (Amended) A method according to any of claims 5-8, wherein the crystallization time

required for each bottle blank is controlled in a range of 90-120_sec.

10. (Amended) A method according to claim 5, wherein during while the bottle blank is

crystallized in the crystallizer, the body portion of the bottle blank is protected free for the influence

from an the high temperature environment of the crystallizer at high temperature by using a cooling

partition.

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